- c) binds to an anti-gp41 antibody; and
- d) has no inter-chain disulfide bridges.
- 12. (New) The composition according to claim 11, wherein the gp160 comprises a gp41 and a gp120 from different HIV strains.
- 13. (New) The composition of claim 11, wherein all or a portion of the gp160 transmembrane region is deleted.
- 14. (New) The composition according to any one of claims 11 13 having a protein content that comprises more than 50% of the trimer.
- 15. (New) The composition according to any one of claims 11 13 wherein the binding affinity of the trimer to CD4 is equal or greater than the binding affinity of gp120 of an infectious HIV.
- 16. (New) A vaccine comprising the composition of any one of claims 11 13 and an adjuvant.
 - (New) A vaccine according to claim 16 wherein the trimer is the only HIV surface antigen in the vaccine.
- 18. (New) A method of producing the trimer according to any one of claims 11 13, the method comprising:
 - a) expressing gp160 or fragment thereof;
 - b) purifying the gp160

I ii hali se iishih kaha lem

II)

c) contacting the gp160 with a reducing agent;